ER-A320US

SHARP SERVICE MANUAL

CODE : 00ZERA320USME

ELECTRONIC CASH REGISTER

MODEL ER-A320

SRV Key : LKGIM7113RCZZ
PRINTER : CR-812AII

(For "U" version)

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PARTS GUIDE

Parts marked with "⚠" are important for maintaining the safety of the set. Be sure to replace these parts with specified ones for maintaining the safety and performance of the set.

SHARP CORPORATION

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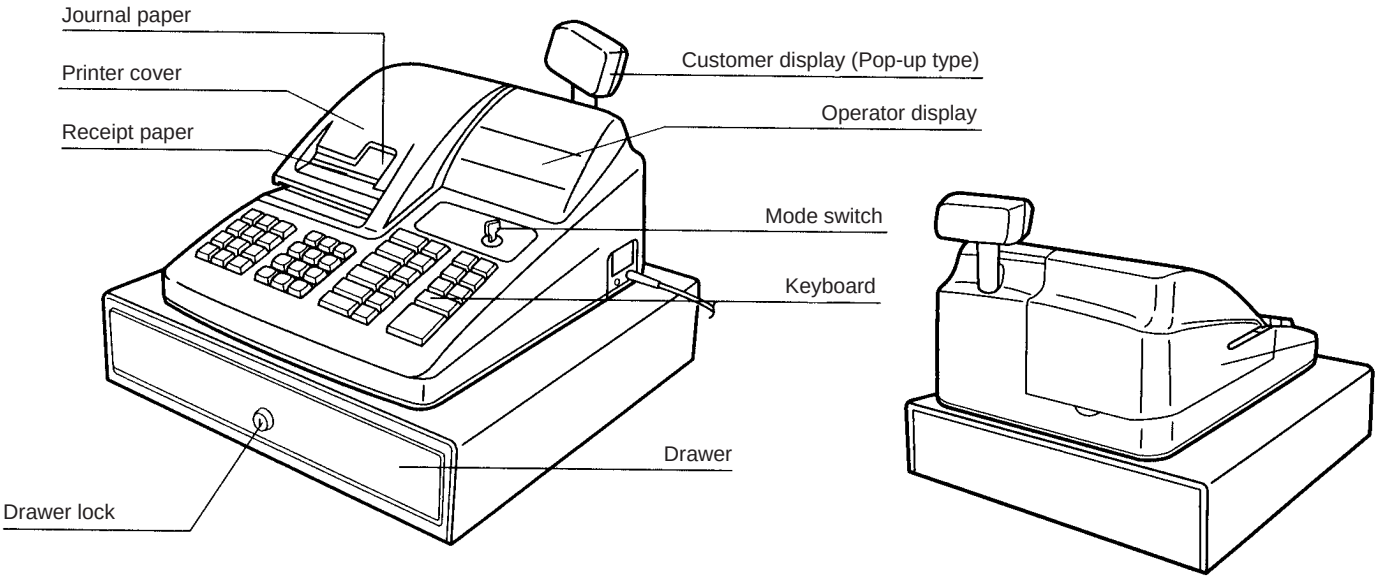
CHAPTER 1 . SPECIFICATIONS

1. Appearance/Rating

1) Appearance

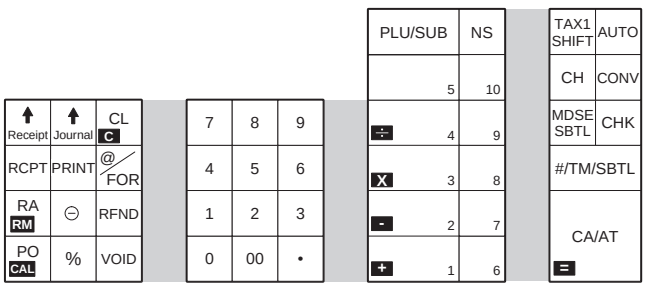


2) Rating

Power source	120V AC ± 10%, 60 Hz
Power consumption	Stand-by: 9W Operating: 35W (Max.)
Operating temperature	32°F to 104°F (0°C to 40°C)
Operating humidity	10% to 90% (RH)
Physical dimensions including the drawer	420 (W) x 423 (D) x 304 (H) mm (16.5 (W) x 16.7 (D) x 12.0 (H) in.)
Weight	13.0 kg (28.7 lbs.)

2. Keyboard

1) Standard keyboard layout



2) Key top name

① Standard key top

KEY TOP	DESCRIPTION
↑RECEIPT	Receipt paper feed key
↑JOURNAL	Journal paper feed key
0~9, 00	Numeric keys
.	Decimal point key
@/FOR	Multiplication key
CL/C	Clear key
PRINT	Validation print key
Dept.1/+	Department 1/ Plus key (Calc. mode)
Dept.2/–	Department 2/ Minus key (Calc. mode)
Dept.3/×	Department 3/ Multiplication key (Calc. mode)
Dept.4/÷	Department 4/ Division key (Calc. mode)
Dept.5~10	Department 5~10 keys
PLU/SUB	PLU/Subdepartment key
RCPT	Receipt print key
⊖	Discount key
AUTO	Automatic sequencing key
%	Percent key
NS	No-sale key

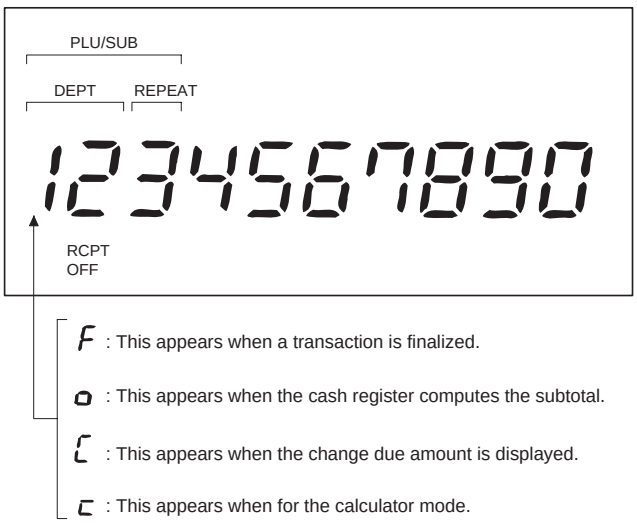
KEY TOP	DESCRIPTION
RA/RM	Received on account/ Recall memory key (Calc. mode)
PO/CAL	Paid out/Calculation mode key
RFND	Refund key
VOID	Void key
CH	Charge key
CHK	Check key
CONV	Conversion key
MDSE SBTL	Merchandise subtotal key
#/TM/SBTL	Non-add code/Time display/Subtotal key
CA/AT/=	Cash/Amount tendered/ Equals key (Calc. mode)
TAX1 SHIFT	TAX1 shift key

② Optional key top

KEY TOP	DESCRIPTION
Dept. 11~40	Department 11~40 keys
DEPT#	Department number entry key
TAX2 SHIFT~TAX4 SHIFT	Tax2~Tax4 shift keys
AUTO2	Automatic sequencing 2 key
CONV2~4	Conversion 2~4 keys
CA2	Cash total 2 key
CH2	Charge 2 key
⊖2	Discount 2 key
%2	Percent 2 key

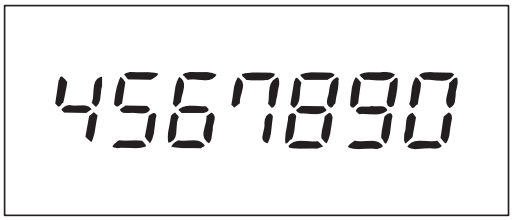
3. Display

1) Operator display


PLU/SUB
DEPT
REPEAT
1234567890
RCPT
OFF
F : This appears when a transaction is finalized.
o : This appears when the cash register computes the subtotal.
C : This appears when the change due amount is displayed.
c : This appears when for the calculator mode.

DISPLAY DEVICE	LED
NUMBER OF LINE	1 line
NUMBER OF POSITIONS	10 positions
COLOR OF DISPLAY	Green
CHARACTER SIZE	14.2mm (H) x 8.0mm (H)

2) Customer display (Pop-up type)



DISPLAY DEVICE	LED
NUMBER OF LINE	1 line
NUMBER OF POSITIONS	7 positions
COLOR OF DISPLAY	Green
CHARACTER SIZE	14.2mm (H) x 8.0mm (H)

3) Lamps

	DISPLAY POSITION	DESCRIPTION
AMOUNT	1~8	
MINUS SIGN	2~10	- : Floating
ERROR	10	E
PGM MODE	10	P
CA/AT CH CHK	10	F : Lights up when a registration is finalized by depressing CA/AT, CH or CHK key
SUBTOTAL/ SHORT TENDER	10	o
CHANGE	10	C : Lights up whenever the change due amount appears in the display.
DEPARTMENT	9~10	No zero-suppressed.
PLU	8~10	No zero-suppressed.
REPEAT	8	Endless count, starting from 2.
DECIMAL POINT	5~1	TAB (4~2)
RECEIPT OFF	9	—
VALIDATION	10	U : Light up when the validation printing is compulsory.
CONVERSION or CALC. MODE	10	c

4. Printer

1) Printer specifications

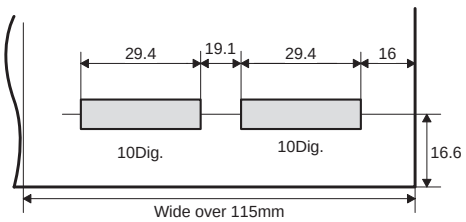
ITEMS	
Model name	CR-812A II
No. of station	2 (Receipt/Journal)
Printing system	Print wheel selective type
Printing capacity	Receipt : Max. 10 chr. Journal : Max. 10 chr. Validation : Max. 20 chr./1 line
Character size	Figure : 1.7mm (W) x 3.2mm (H) Symbol : 2.4mm (W) x 3.2mm (H)
Print pitch	Column distance : 3.35mm for between 1st and 2nd column 3.0mm for after 3rd column Row distance : 5.1mm
Print speed	Approx. 2.5 lines/sec.
Paper feed speed	Approx. 17 lines/sec. at receipt issued.
Reliability	MCBF 2.5 million lines
Validation form sensor	No
Near end sensor	Journal side: No Receipt side: No
Cutter	Manual
Print wheel layout	Parts code: 00BM731002300

10	9	8	7	6	5	4	3	2	1
PL	Z	TX	.	.	.	.	GT	CA	@
—	—	—	—	—	—	—	#	CK	Q
★	★	★	★	★	★	★	%	CH	CG
0	0	0	0	0	0	0	0	RA	TD
1	1	1	1	1	1	1	1	PO	1
2	2	2	2	2	2	2	2	VD	2
3	3	3	3	3	3	3	3	NS	3
4	4	4	4	4	4	4	4	TX	4
5	5	5	5	5	5	5	5	FS	5
6	6	6	6	6	6	6	6	⊖	6
7	7	7	7	7	7	7	7	X	½
8	8	8	8	8	8	8	8	EX	ST
9	9	9	9	9	9	9	9	RF	TL

2) Roll paper

Parts code	DPAPR1006CSZZ
Dimension	44.5± 0.5mm in width Max. 80mm in diameter
Paper quality	Journal/Receipt Fine quality paper Paper thickness : 0.06 to 0.09 mm Paper weight : 52.3 to 64g/m^2 Validation form Normal paper only Thickness : 0.08 to 0.19 mm Size : 115mm or more, 210mm or under (W) x 70mm or more (H)

3) Validation paper

Paper quality	Normal paper and pressure sensitive paper only Thickness : 0.07 to 0.14 mm Size : 115 mm or more (W) x 70 mm or more (H)
Printing area	

4) Inking

Parts code	NROLR6638RCZZ
Ink supply system	Ink roller
Form	Roller
Specification	Material-rubber
Roller life	Approx. 0.6 million lines
Print color	Purple

5) Logo stamp

Material	Porous rubber
Size	30mm (W) x 20mm (H)
Color	Purple
Parts code for ink	UINK1001CCZZ

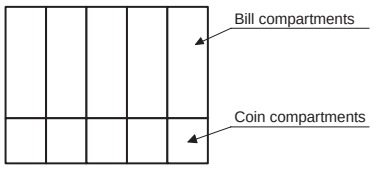
5. Drawer

1) Drawer box and drawer

Model name	SK423
Size	420(W) x 423(D) x 112(H) mm
Color	Gray 368
Material	Metal
Bell	—
Release lever	Standard equipment; Situated at the bottom
Drawer open sensor	Standard equipment

2) Money case

Separation from the drawer	Allowed
Separation of the coin compartments from the money case	Disallowed
Bill separator	—
Number of compartments	5B/5C



5B/5C

3) Lock

Location of the lock	Front	
Method of locking and unlocking	Locking :	Insert the drawer lock key into the lock and turn it 90 degrees counterclockwise.
	Unlocking :	Insert the drawer lock key into the lock and turn it 90 degrees clockwise.
Key No.	SK1-1	

CHAPTER 2. OPTIONS

1. Sales options

No.	NAME	MODEL	DESCRIPTIONS
1	COIN CASE	ER-55CC2	5B/5C (For "U" version)
2	KEY TOP KIT	ER-11KT7	1 x 1 key top
		ER-12KT7	1 x 2 key top
		ER-22KT7	2 x 2 key top
		ER-11DK7G	1 x 1 dummy key
		ER-51DK7G	5 x 1 dummy key

2. Service options

No.	NAME	PARTS CODE	PRICE RANK	DESCRIPTIONS
1	SRV KEY	LKGiM7113RCZZ	AK	
2	MODE KEYGRIP COVER	LKGiM7126RCZZ	AL	OP key only
3	DRIP-PROOF KEYBOARD COVER	GCŌVH7126BHZZ	BE	

3. Supplies

No.	NAME	PARTS CODE	PRICE RANK	DESCRIPTIONS
1	ROLL PAPER	DPAPR1006CSZZ	AR	
2	INK ROLLER	NRŌLR6638RCZZ	AY	
3	INK FOR STAMP	UiNK-1001CCZZ	AK	